

Product datasheet for **RC238640**

CDK5RAP1 (NM_001278168) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDK5RAP1 (NM_001278168) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CDK5RAP1
Synonyms:	C20orf34; C42; CGI-05; HSPC167
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238640 representing NM_001278168
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCACCCTTTACAGTGTCTCCAAGTGCAGAGGTCTCTGGGGTGGGACCATTGGCCTCTGTGTCTT
 GGCTGTCGCTGAGGATGTGCAGGCACACAGCAGTCTCTAGTACCATGTGTCCAGTCCAGAGAGGCA
 GGAGGATGGAGCTCGGAAGGATTCAGCTCCAGGCTGGCTGCTGGACCGACTTTTCAACATTTTTAAAA
 AGTGCCTCAGCTCCTCAGGAGAAGCTGTCTTCAAGTGAAGACCCACCTCCCTATCTCATGATGGATG
 AACTTCTTGAAGGCAGAGAAAAGTCTACCTCGAGACCTATGGCTGCCAGATGAATGTGAATGACACAGA
 GATAGCCTGGTCCATCTTACAGAAGAGTGGCTACCTGCGGACCAGTAACCTCCAAGAGGCAGATGTGATT
 CTCCTTGCACATGCTCTATCAGGGAGAAGGCTGAGCAGACCATCTGGAACCGTTTACATCAGCTTAAAG
 CCTTGAAGACAAGGCGGCCCGCTCCCGGGTTCCTCTGAGGATTGGAATTCTAGGCTGCATGGCTGAGAG
 GTTGAAGGAGGAGATTCTCAACAGAGAGAAAATGGTAGATATTTGGCTGGTCTGATGCCTACCGGGAC
 CTTCCCGGCTGCTGGCTGTTGCTGAGTCGGGCCAGCAAGCTGCCAACGTGCTGCTCTCTGGACGAGA
 CCTATGCTGATGTCATGCCAGTCCAGACAAGCGCCAGTGCCACGTCTGCCTTTGTGTCAATCATGCGAGG
 CTGTGACAACATGTGTAGCTACTGCATTGTTCTTTACCCGGGGCAGGGAGAGGAGTCCGCCTATTGCC
 TCCATTCTAGAGGAAGTGAAGAAGCTTTCTGAGCAGGTTCTGCAGCTGATTCATGAGAGAGATAACATCT
 GTAACAGATCCACCTGCCAGCCAGAGTGAAGCAGCCGTGTGTTGGAGGCCATGCCGAGGGGATATTC
 AAGAGAAGCTTATGTGGAGTTAGTTCACCATATTAGAGAATCTATTCCAGGTGTGAGCCTCAGCAGCGAT
 TTCATTGCTGGCTTTTGTGGTGAACGAGGGAAGATCACGTCCAGACAGTCTCTTGTCTCCGGAAGTTC
 AGTACAACATGGCTTCTCTTTGCCTACAGCATGAGACAGAAGACACGGGCATATCATAGCTGAAGGA
 TGATGTCCCGGAAGAGGTAAAATTAAGGCGTTTGGAGGAACATCACTATCTTCCGAGAAGAAGCAACA
 AAAGCCAATCAGACCTCTGTGGGCTGTACCCAGTTGGTGTAGTGAAGGGCTCAGTAAACGCTCTGCCA
 CTGACCTGTGTGGCAGGAATGATGGAAACCTTAAGGTGATCTTCCCTGATGCAGAGATGGAGGATGCAA
 TAACCCTGGGCTCAGGCTCAGAGCCAGCCTGGGACTATGTGCTGGTGAAGATCACCTCAGCCAGTTCT
 CAGACACTTAGGGGACATGTTCTCTGCAGGACCACTCTGAGGGACTCTTCTGCATATTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238640 representing NM_001278168
 Red=Cloning site Green=Tags(s)

MHPLQCVLQVQRSLGWGPLASVSWLSLRMCRAHSSLSTMCSPERQEDGARKDFSSRLAAGPTFQHFLK
 SASAPQEKLSSVEEDPPPYLMMDELLGRQRKVYLETYGCQMNVDTEIAWSILQKSGYLRTSNLQEADVI
 LLVTCISIREKAEQTIWNRLHQLKALKTRRPRSRVPLRIGILGCMAERLKEEILNREKMDVILAGPDAYRD
 LPRLLAVAESGQQAANVLLSLDETYADVMPVQTSASATSAFVSIMRGCNDMCSYCIVPFTRGRERSRPIA
 SILEEVKKLSEQVLQIHERDNICKQIHLPAQSGSSRVLEAMRRGYSREAYVELVHHIRESIPGVSLSSD
 FIAGFCGETEEDHVQTVSLLREVQYNMGFLFAYSMRQKTRAYHRLKDDVPPEVKLRRLLEELITIFREEAT
 KANQTSVGCTQLVLEGLSKRSATDLCGRNDGNLKVIFPDAEMEDVNNPGLRVRAQP GDYVLVKITSASS
 QTLRGHVL CRTTLRDSSAYC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

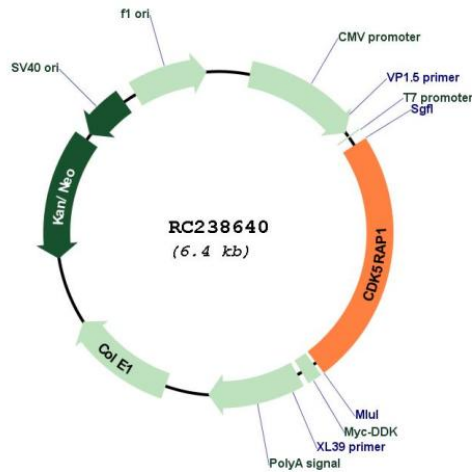
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001278168

ORF Size: 1530 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001278168.1](#), [NP_001265097.1](#)

RefSeq Size: 1912 bp

RefSeq ORF: 1533 bp

Locus ID: 51654

UniProt ID: [Q96SZ6](#)

Cytogenetics: 20q11.21

MW: 57.9 kDa

Gene Summary: This gene encodes a regulator of cyclin-dependent kinase 5 activity. This protein has also been reported to modify RNA by adding a methylthio-group and may thus have a dual function as an RNA methylthiotransferase and as an inhibitor of cyclin-dependent kinase 5 activity. Alternative splicing results in multiple transcript variants that encode different isoforms. [provided by RefSeq, May 2013]